KHACHATUROV, S.G., inzh. (Tashkent); SHNEYER, I.A., dotsent (Tashkent)

Some properties of loess loams important in the construction of dams by the method of mechanized dumping of soil into water. Gidr. i mel. 13 no.8:46-52 Ag '61. (MIRA 14:8)

(Dams)

SHMEYER, I.A., kand.tekhn.nauk; KORSUNTSEV, V.I., inzh.

Experimental earth-fill of the earth dam in construction of the Golovnaya Hydroelectric Power Station. Gidr. stroi. 32. nc.8:10-13 Ag 162. (MIRA 15:9)

(Golovnaya Hydroelectric Power Station—Dams)
(Earthwork)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549820004-8

SHNEYER, I.A.

Suspension capacity of a flow in the settling of sediments. Izv. Uzb.fil.Geog.ob-va 6:30-38 '62. (MIRA 15:8) (Sedimentation and deposition)

SHNEYER, I.A.

Sedimentation in headwaters. Izv.AN Uz.SSR.Ser.tekh.nauk 6 no.1: 63-74 '62. (MIRA 15:2)

1. Tashkentskiy universitet imeni V.I.Lenina. (Sedimentation and deposition)

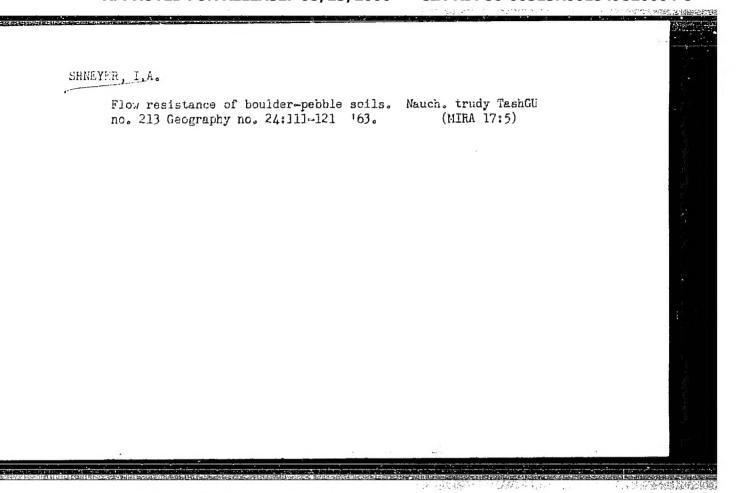
SHNEYER, I. A.

Silting of a water reservoir. Izv. AN Uz. SSR. Ser. tekh. nauk 6 no.5:62-71 62. (MIRA 15:10)

1. Tashkentskiy gosudarstvennyy universitet imeni V. I. Lenina.

(Silt) (Reservoirs)

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SHNEYER, K.S., vrach

158.

CIA-RDP86-00513R001549820004-8

(MIRA 12:6)

Work of the laboratory on improving the bacteriological diagnosis of dysentery. Zdrav.Turk. 2 no.3:43-44 My-Je

> 1. Iz Ashkhabadskoy gorodskoy klinicheskoy bol'nitsy No.1 (glavnyy wrach - M.B.Shapiro).
> (ASHKHABAD-BACTERIOLOGICAL LABORATORIES) (DYSENTERY-BACTERIOLOGY)

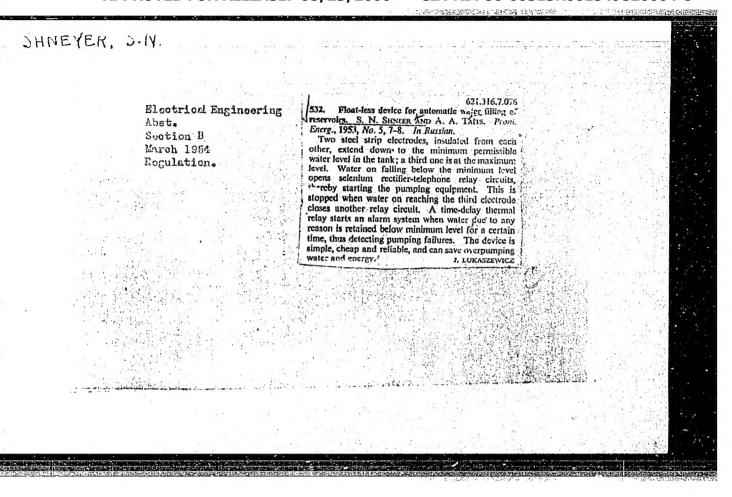
KORSHAK, V.V.; GOLOVA, O.P.; SERGEYEV, V.A.; MERLIS, N.M.; SHNEYER, R.Ya.

Polyethers of levoglucosan. Part 1: Polymerization of levoglucosan and its ethers. Vysokom.soed. 3 no.3:477-485 Mr 161. (MIRA 14:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Glucopyranose) (Polymerization)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820004-8



"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820004-8

SHNEYER, V.S., mladshiy nauchnyy sotrudnik

Secular variations of geomagnetic elements in the Mirnyy area.

Inform. biul. Sov. antark. eksp. no.5:48-50 '59.

(MIRA 12:10)

1.Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. (Antarctic regions--Magnetism, Terrestrial--Secular variation)

SHNEYER, V.S., mladshiy nauchnyy sotrudnik

Nature of geomagnetic activity at the Lazarev Station according to the observations of 1959. Inform. biul. Sov. antark. eksp. no.22: 51-52 '60. (MIRA 14:5)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. (Lazarev Station, Antartica—Magnetism, Terrestrial)

SHNEYER, V.S., mladshiy nauchnyy sotrudnik

Experience in operating the proton magnetometer at Mirnyy. Inform. biul.Sov.antark.eksp. no.42:57-58 '63. (MIRA 17:1)

1. Snestaya kontinental'naya ekspeditsiya.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820004-8

Po-4/P1-4 GH ENT(1)/FCC/EEC(t) L 53653-65 UR/3148/64/000/006/0027/0037 ACCESSION NR: AT5011149 20 AUTHOR: B +Raspopov, O. M.; Shneyer, V. S. TITLE: Observations of short periodic oscillations of the geomagnetic field on the drifting station SP-6 SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. 3 razdel programmy MGG: Geomagnetizm i zemnyye toki. Sbornik statey, no. 6, 1964. Geomagnitnyye issledovaniya, 27-37 TOPIC TAGS: geomagnetic oscillation, oscillogram, magnetic storm, force line, nonhomogeneity, ionospheric current ABSTRACT: Observations of geomagnetic oscillations of short duration were started on the drifting station Severnyy Polyus-6 (North Pole-6) in 1959. The geographic coordinates of the station at the start of observations were 82°H lat and 7°E long. Oscillations were recorded by a variation of the Bryunelli-type apparatus. The period of magnetic oscillations was from 10 to 300 sec. The best agreement of oscillograms was obtained on Severnyy Polyus-6 and at Mirnyy in Antarctica. Records of a magnetic storm with sudden commencement showed total agreement of the process on Severnyy Polyus-6 and at Mirnyy. Short periodic oscillations recorded at other stations located at lower latitudes differed from those obtained on Severnyy Polyus-6 **Card** 1/2

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Temporary water cup by for construction sites. Hishva, Cos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 26 p. (54-24802)
TH153.1594

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820004-8

SPYSHNOV, Petr Alekseyevich; SHNEYEROV, Aron Isaarovich; SHTEKKER, G.A., inzhener, nauchnyy redaktor; SWIENOVA; A.P., redaktor; SMOL YAKO-VA, M.V., tekhnicheskiy redaktor.

[Handbook on water supply pipes, plumbing and drainage system inside a building; planning, design, equipment and calculations.] Sprayochnik po vnutrennim vodoprovodu, kanalizatsii i vodostokam; proektirovanie, kanstruktsii, oborudovanie i raschet. Izd. 2-e, perer. i dop. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1954. 416 p. (MLRA 8:3) (Plumbing)

LUK'YANOV, V.I.; MYSLIN, V.A.; SHNEYEROV, A.I.; KHORKHOT, A.Ya.;
YELENSKIY, M.S.; MEL'NIKHOYA, O.M.; PLESHKOV, L.Ye.; ORLOV, V.V.;
ZLATOLINSKIY, V.N.; VISHNEVSKIY, F.L.; LAPSHENKOV, P.G.; MAKHOV,
M.S.; RUKAVISHNIKOV, I.D.; LYTKIN, K.F.; KOZHEVNIKOV, O.A.;
ZORKIN, G.N.; NORMAN, B.B.; TUMANOV, N.S.; SEREBRYANIKOV, S.M.;
VOLKOV, N.G.; NOVIKOV, P.G.; FRIDBERG, G.V., inzh., red.izd-va;
GELINSON, P.G., tekhn.red.

[Designing chief plans for industrial plants; principal methods] Proektirovanie general'nykh planov promyshlennykh predpriiatii; osnovnye polozheniia. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 103 p.

(MIRA 13:6)

l. Akademiya stroitel'stva i arkhitektury SSSR. Institut gradostroitel'stva i rayonnoy planirovki. 2. Nauchno-issledovatel'skiy institut gradostroitel'stva Akademii stroitel'stva i arkhitektury USSR (for Khorkhot, Yelenskiy, Mel'nikhova). 3. Gosudarstvennyy institut proyektirovaniya metallurgicheskikh zavodov (Gipromez) (for Pleshkov). (Continued on next card)

SHNEYERSON, A.N.

Comparative evaluation of the new penicillins according to their action on clinical Staphylococcus strains. Antibiotiki 8 no.8:695-700 Ag '63. (MIRA 17:5)

1. Laboratoriye mikrobiologicheskikh metodov kontrolya (zav. - A. Ye. Tebyakina) Vsesoyuznogo nauchno-issledovatel skogo instituta antibiotikov.

SHREVEROV.

36-71-7/16

AUTHOR:

TITLE:

The Effect of Incoming Heat on Large-Scale Atmospheric Shneyerov, B. Ye. Movements (K voprosu o vlivanii pritokov tepla na

krupnomasshtabnyye dvizheniya v atmosfere)

PERIODICAL: Trudy Glavney geofizicheskoy observatorii 1957, Nr 71, pp. 103-111 (USSR)

The article presents a method for solving general, two-dimensional, thermo-hydromechanical equations referring to large-scale movements provided that the distribution of to large-scale movements provided that the distribution of the earth is given. Air temperature over irregular surfaces of the earth is given. ABSTRACT: displacements are divided into a basic (zonal) flow and small displacements are divided into a pasit (201121, 1101 and of heat superposed perturbations (pressure waves). The question of the movement must be considered for a complete solution of the problem relative to the pattern of pressures in the atmosphere. Heat originating in the condensing vapors and affected by turbulent heat conductivity cause marked perturbation of the main flow. Topographic irregularities also contribute to the formation of pressure waves. This study outlines as quasi-stationary the processes of filed of pressure and temperature of the three components of wind velocity based on the assumption that the configuration of the surface is known. Six basic

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Scheme for the solution of equations for the short-range forecasting of the geopotential and vertical speed. Trudy GGO no.124:18-55

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SHVETS, M.Ye.; SHNEYEROV, B.Ye.

A nonadiabatic model of atmospheric motions utilizing the results of radiation measurements from satellites. Dokl. AN SSSR 152 no.3:598-601 S '63. (MIRA 16:12)

1. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova. Predstavlero akademikom Ye.K.Fedorovym.

SHNEYEROV, B.Ya.; VOLCHEK, F.R.

Roll surface temperature. Sbor. trud. UNIIM no.11:164-167
(65. (MIRA 18:11)

VCRGITSOV, H.M.; GUIIN, I.V.; NIKOLAYENKO, N.A.; SHNEYEROV, B. Ya., kand. tekhn. nauk; GOVOR, U.S.

Rolls for rolling lightweight channels. Sbor. trud. UNIIM no.9:196-216 '64 (MIRA 18:1)

SHVETS, M.Ye.; SHNEYEROV, B.Ye.

Calculation of the flow of heat into the soil. Izv. AN SSSR. Fiz. atm. i okeana 1 no.2:167-174 F '65. (MIRA 18:5)

1. Glavnaya geofizicheskaya observatoriya imeni Voyeykova.

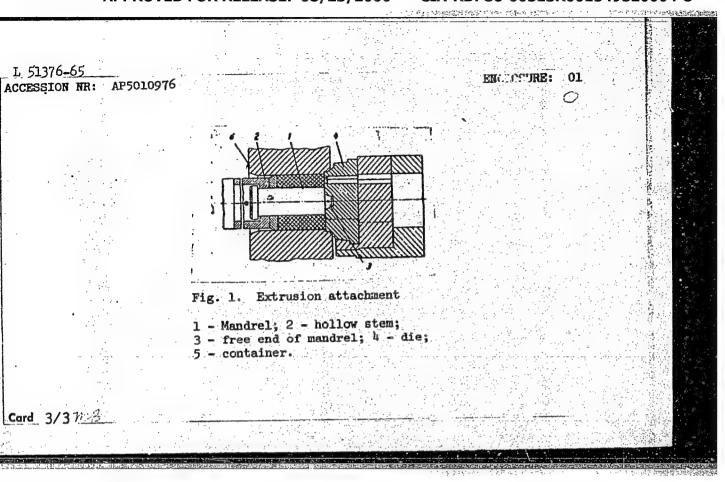
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CIA-RDP86-00513R001549820004-8

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EVP(t) Pf-4 EM/JD/HW	
ACCESSION NR: AP5010976	R/0286/65/000/007/0165/0165
AUTHOR: Zakharov, M. F.; Feygin, V. I.; Roytbarg, L. K Yermanok, M. Z.; Gil'dengorn, M. S.	h.; Shneyerov, I. S.;
TITLE: An extrusion attachment. Class 49, No. 169985	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no.	7, 1965, 165
16 20	
TOPIC TAGS: extrusion, panel extrusion, extrusion atta	chment, paner extrusion
device 12	
ABSTRACT: This Author Certificate introduces an attach	ment for the extrusion of
panels from hollow billets. The device consists of a m	andrel (see Fig. 1 of the
Enclosure) fitted into a hollow stem and centered in th	e die which, during extru-
sion, forms the inner wall of the container. In order	to lower the extrusion force
and to increase the quality of extruded articles, the s	the chare of an open ring
der in which the mandrel slides freely and the die has	the shape of an open ring
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ASSOCIATION: none	
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SHNEYEROV, Lev Aronovich; LANKAU, A.N., red.; CHICHERIN, A.N., tekhn.red.

[The NMS typesetting and type founding machine] Nabornaia strokootlivnaia mashina NMS. Moskva, Gos.izd-vo "Iskusstvo," 1959. 191 p. (MIRA 13:2) (Type and type founding)

UNINTERMY, M. S. (NB Tsvetmetavtomatika, Mencom)

"Janstruction of Pressurized Air Apparatus for Strongly Aggressive Media,"

report presented at the Scientific Seminar on Pneumo-Hydraulic Automation, 23-23 May 1957, at the Inst. for Automation and Remote Control (IAT) Acad. Sci. USSR.

Avtomika i Telemeekhanika, 1957, vol. 18, No. 12, pp. 1148-50, (author SEMIKCVA, A. J.)

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SOV/136-58-6-3/21

AUTHORS:

Averbukh, N.A., Burnashev, A.A., Birger, G.I., Baysh, L.G., Zubkiv, G.A., Zhiryakov, N.I., Isayev, D.V., Ovcharenko,

Ye.Ya., Fromberg, A.B. and Shneyerov, M.S.

TITLE:

New Means for Automatic Testing and Control in Nonferrous Metallurgy (Novyye sredstva avtomaticheskogo kontrolya i regulirovaniya v tsvetnoy metallurgii)

FERIODICAL: Tsvetnyye Metally, 1958, Nr 6, pp 15 - 25 (USSR)

ARSTRACT:

Many processes in non-ferrous metallurgy involve corrosive media and the Konstruktorskoye byuro (Design Bureau)
Tsvetmetavtomatika (KB TsMA) have s ince 1955 been working on pneumatic control methods, which are especially suitable for such conditions. Other organisations named by the authors as some of those working in the same field are: Institut avtomatiki i telemekhaniki AN SSSR (Institute of Automation and Telemechanics of the Ac. Sc.USSR), NIITeplopribor, TsLA of the "Energochermet"
Trust and the "Tizpribor" Works. A wide range (Table 1) is covered by the pneumatic transducers, produced by the KB TsMA (Figures 1 and 2) in which use is made of a corrosion-resistant valves have also been produced (Table 2),

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including a diaphragm type with a position indicator

SOV/136-58-6-3/21

New Means for Automatic Testing and Control in Non-ferrous Metallurgy

(Figure 3). For the continuous analysis of hydrometallurgical solutions, the KB TsMA in 1957 developed (Figure 4) an automatic polarographic concentrationmeter, type KAP-225, with a transducer type DAPK-226: this device has been successfully used at the "Elektrotsink" Works for analysing for cadmium in zinc electrolyte and is based on alternating-current polarography. The KB TsMA have developed a series of radioactive methods, particularly for level indication over a wide (type URP) (Figure 5) and a relatively narrow (type 'JRPR) (Figure 6) range. A radioactive density-meter, type FR-150, independent of the mineralogical and size composition of pulp over a wide range has been successfully tested at the Zolotus hinskaya obogatitel'naya fabrika (Zolotushinskaya Beneficiation Works) (ranges 1.5-2.5 and 1-2 kg/litre). Work is proceeding on other radioactive meters including a moisture meter, for concentrates and similar materials. Based on/a corrosion-resistant, differential, thermoelectric anemometer (electrical circuit) proposed by engineers V.A. Drozdov and A.M. Listov), a flowmeter for pure or air-diluted chlorine has been developed by the

Card 2/3

SOV/136-58-6-3/21

New Means for Astomatic Testing and Control in Non-ferrous Metallurgy

KB TsMA; they have also developed an analyser (type GAMh-239) for chlorine which is accurate to + 3% and these two instruments are to be used in an integrated automation system being devised for the magnesium industry. The KB TsMA have developed an automatic installation for (Figures 7 and 8) controlling a single pump in relation to the liquid level. Another recent activity of this organisation has been the development of the type ATV-229 over-heating protective device (Figure 9) and a twelve-point temperature signalling device (Figure 10). The ATV-229 device is to be produced by the Tsvetmetpribor Works. In collaboration with the Institut gigiyeny truda i profzabolevaniy AMM SSSE (Institute of Work Hygiene and Occupational Deseases of the A'S USSR), the KB TsMA have developed a device (Figure 11) for continuous measurement and recording of mercury-vapour concentration in air in the range 0.1 - 0.6 mg/m3. This instrument (IKRPO445) (Figure 11) also gives an alarm signal if the concentration becomes excessive and its range is being extended in both directions.

Card 3/3

SOV/136-58-6-7/21

AUTHORS: Shneyerov, M.S., Podgoyetskiy, M.L. and Braverman, E.M.

TITLE: Automation of Technological Processes in Titanium-magnesium

Production (Avtomatizatsiya tekhnologicheskikh protsessov

titano-magniyevogo proizvodstva)

PERIODICAL: Tsvetnyye Metally, 1958, Nr 6, pp 38 - 41 (USSR)

ABSTRACT: For automating titanium and magnesium production, special apparatus capable of operating in corrosive surroundings,

is required. The KB TSMA started work on the automation of titanium production in 1955 in collaboration with the

VAMI (All-Union Aluminium-magnesium Institute), a

continuous chain of processes being chosen initially. For the chlorination of titanium-containing briquettes in a shaft electric furnace (together with the chlorine-gas

preparation section) the scheme adopted (Figure 1) provides for regulation of temperature at the furnace exit by

controlling the chlorine flow, automatic charging by a time-switch controlled system, the maintenance of constant

pressure conditions in the condensation system. To facilitate the last, an ultrasonic flowmeter (Figure 2)

for the flow of pulp to the sprays has been developed and successfully tested. In the rectification column control

Cardl/3 is effected by automatic regulation of the level in the

SOV/136-58-6-7/21

Automation of Technological Processes in Titanium-magnesium Production

reservoir at its base; standard equipment is used to regulate the rate of entry and temperature of the initial mixture. The KB TsMA on the basis of its own investigations and those of the VAMI have developed a system for the automatic control (Figure 3) of demountable types of reactors for the reduction of titanium tetrachloride with magnesium; a single, multiple-couple thermocouple with a special device ITM-205 is used to locate the maximal temperature up the reactor; the pneumatic signal from the type EPD-32 temperature controller goes to the KBTsMAdeveloped type RPD-327 pressure controller together with the signal from a pressure transducer measuring reactor pressure. The output from the RPD-327 goes to a type RK-27 valve (KB TsMA designed) and closes it if the temperature and pressure rise. Work is now proceeding on the automation of reduction in combined reactors. The author gives some quantitative estimates of the effects of automation in this industry.

Card 2/3

SHNEYEROU, M.S.

PHASE I BOOK EXPLOITATION

SOV/2702

Institut avtomatiki i telemekhaniki. 28(1) 1st, Moscow, 1957 Akademiya nauk SSSR.

Seminar po pnevmogidravlicheskoy avtomatike.

Sistemy, ustroystva i elementy pnevmo- i gidroavtomatiki; /sbornik/ (Pneumatic and Hydraulic Circuits Devices, and Elements in Automation; Collection of Papers) Moscow, Izd-vo AN SSSR, 1959. 233 p. Errata slip inserted. 2,700 copies printed.

Resp. Ed.: M. A. Ayzerman, Doctor of Technical Sciences, Professor; Ed. of Publishing House: A. A. Tal'; Tech. Ed.: T. P. Polyakova.

PURPOSE: This collection of papers is intended for scientific research workers and engineers in the field of design and construction of pneumatic and hydraulic equipment and accessories

COVERAGE: This collection contains papers read at the Seminar on Pneumatic and Hydraulic Devices for Automation, May 28, 1957. The collection is divided into the following three groups: 1) newly developed pneumatic and hydraulic circuits 2) pneumatic and hydraulic devices, including regulating units, transmitters Card 1/

ARKAD'YEV, A.G.; MAR'YANOVSKIY, YE.M.; SHNEYEROV, M.S.

Measuring the rate of the air flow into flotation machines. Sbor. mat.po avtom.proizv.prots.i disp. no.5:19-26 *60.

(MIRA 14:4)

1. Konstruktorskoye byuro "TSvetmetavtomatika."
(Flowmeter) (Flotation--Equipment and supplies)

ARKAD'YEV, A.G.; MAR'YANOVSKIY, Ya.M.; SHNEYEROV, M.S.

Aeration meter for flotation machines. TSvet. met. 33 no.8:77 Ag

160.

(Flotation--Equipment and supplies)

ARKAD'YEV, A.G.; MAR'YANOVSKIY, Ya.M.; PODGOYETSKIY, M.L.; SHVARTSER, V.I.; SHNEYEROV, M.S.

Air-jet reaction feedback in pneumatic converters with power compensation. Priborostreenie no.2:5-7 F '61. (MIRA 14:2) (Pneumatic control)

ANFILOV, A.A., inzh; BAKALEYNIK, Ya.M., inzh.; BIRGER, G.I., inzh.; BRUK, B.S., inzh.; BUROV, A.I., inzh.; GINZBURG, V.L., inzh.; ZABELIN, V.L., inzh.; ZAPLECHNYY, Ye.G., inzh.; ISAYEV, D.V., inzh.; KLIMOVITSKIY, A.M., inzh.; KRYUCHKOV, V.V., inzh.; KOTOV, V.A., inzh.; IEYDERMAN, A.Ye., inzh.; PODGOYETSKIY, M.L., inzh.; SAZHAYEV, V.G., inzh.; SEVAST YANOV, V.V., inzh.; FILIPPOV, S.F., inzh.; FROMBERG, A.B., inzh.; SHNEYEROV, M.S., inzh.; ERLIKH, G.M., inzh.; VERKHOVSKIY, B.I., red.; ZUBKOV, G.A., red.; hARKLINA, T.O., red.; OVCHARENKO, Ye.Ya., red.; ANTONOV, B.I., ved. red.

[New means of automatic and centralized control for nonferrous metal mines] Novye sredstva avtomatizatsii i dispetcherskogo upravleniia dlia rudnikov tsvetnoi metallurgii. Moskva, Nedra, 1965. 93 p. (EIRA 18:4)

PETROVA, L. Yu.; SHNEYEROV, M.S.; SUKHOVA, S.D.; LEFEROV, I.A.

Possibility of applying the titration method for the automatic chemical analysis of solutions used in alumina production.

TSvet. met. 38 no.1248 Ja 165 (MIRA 18:2)

ANATOL YEVSKIY, Pavel Aramovich; SHNEYEROV, Osip Markovich, Prinimala uchastiye: ANOKHINA, K.T., PLOTNIKOV, M.A., prof., doktor tekhn. nauk, nauchnyy red.; BATRAKOV, V.A., red.

[Hydrogeological observations in boring and testing wells for water supply; methodological directions] Gidrogeologicheskie nabliudeniia pri burenii i oprobovanii skvazhin dlia vodosnabzheniia; metodicheskie ukazaniia. Pod nauchn.red. N.A.Plotnikova. Moskva, M-vo stroit.RSFSR, Glavspetspromstroi, 1959.

(MIRA 12:12)

1. Gosudarstvennyy Proyektnyy institut "Spetsstroyproyekt" (for Anatol'yevskiy, Shneyerov).

(Water-supply engineering) (Boring)

ANATOL'YEVSKIY, Pavel Aramovich; MALOYAN, Arminak Vladimirovich; SHNEYEROV, Osher Mendeleyevich; VOLOD'KO, I.F., kand. tekhn. nauk, nauchn. red.; DAVLETSHIN, Z.V., inzh.;nauchn.red.; KAZ'MIN-BALASHOV, A.I., inzh., nauchn. red.; KAYESHKOVA, S.M., ved. red.

[Operation and repair of water wells] Ekspluatatsiia i remont vodianykh skvazhin. Moskva, Izd-vo "Nedra," 1964. 211 p. (MIRA 17:5)

ACC NRI AMG033866

Monograph

UR/

Ganichev, Ivan Aleksandrovich; Anatol'yevskiy, Pavel Aramovich; Shneyerov, Osip Markovich

Boring operations in construction (Proizvodstvo burovykh rabot v stroitel'stve)
Moscow, Stroyizdat, 1966. 330 p. illus., biblio. 4000 copies printed.

TOPIC TAGS: drilling machine, well drilling machinery, boring machine, construction, general construction

PURPOSE AND COVERAGE: This book is intended for engineers and technicians working on the design and building of special industrial structures. It may also be used as a textbook by students of building institutes and technical institutes of higher education. The book discusses the basic methods of drilling used in industrial and civil construction for the erection of foundations, underground oil and gas reservoirs, blasting, the anchoring of rock, etc. Data is presented on drilling technology and the necessary equipment, instrumentation, and materials. Primary attention is devoted to the technical and economic factors of drilling and to advanced experience in production. The authors express their deep gratitude for the valuable advice of Doctor of Technical Sciences, Professor B. I. Vozdvizhenskiy. There are 99 references, 88 of which are Soviet.

TABLE OF CONTENTS (abridged)

Foreword -- 3

Part One. Basic Data on the Technology of Drilling Operations in Construction -- 6

CIA-RDP86-00513R001549820004-8

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DEMIDOV, P.G.; KORNEYEV, Yu.N., red.; SHNEYEROV, S.A., red.;
PETROVSKAYA, Ye., tekhn. red.

[Fundamentals of the combustion of substances] Osnovy gorenia veshchestv. Moskva, Izd-vo M-va kommun.khoz. RSFSR, 1951.
295 p. (MIRA 16:7)

LEV, Ye.Yu.; SHNEYEROV, S.M.

Reorganizing the supply of raw materials is an urgent problem of the glass industry. Stek. i ker. 18 no. 3:1-3 Mr '61.

(Glass manufacture)

(Glass manufacture)

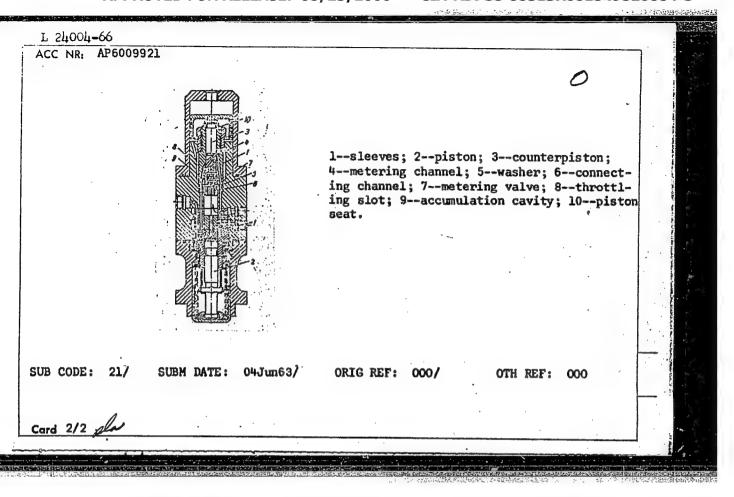
SHNEYEROV, S.M.

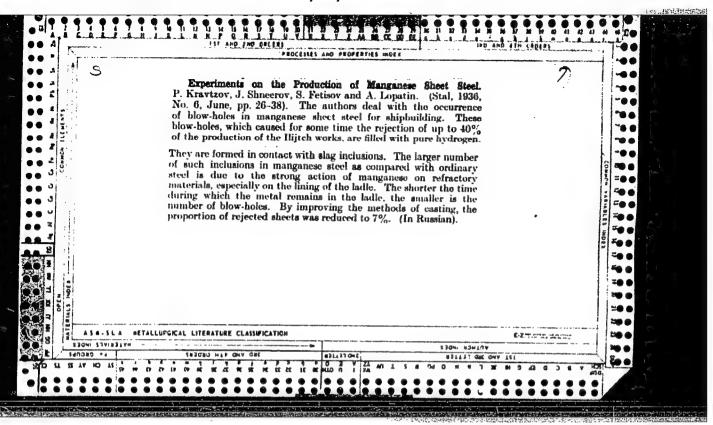
Bosonomic survey of glass manufacture in foreign countries. Stek.i ker. 14 no.8:27-29 Ag '57. (MIRA 10:10) (Glass manufacture)

CIA-RDP86-00513R001549820004-8

WW/DJ/WE L 24004-66 EWT(1)/EWT(m)/EPF(n)-2/T/ETC(m)-6 ACC NR: AP6009921 (A) SOURCE CODE: UR/0413/66/000/004/0116/0117 AUTHOR: Shneyerov, V. S.; Kreps, L. I. ORG: none TITLE: An accumulative fuel pump for internal combustion engines. Class 46. No. 179123 [announced by Central Scientific Research and Design Institute of Fuel Systems for Automotive and Stationary Engines ("sentral'nyy nauchno-issledovatel'skiy i konstruktorskiy institut toplivnoy apparatury avtotraktornykh i statsionarnykh dvigateley)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 116-117 TOPIC TAGS: engine fuel system, engine fuel pump, internal combustion engine component ABSTRACT: This Author's Certificate introduces an accumulative fuel pump for internal combustion engines based on Author's Certificate No 166199. The pump contains coaxial sleeves with a piston and a counterpiston which has a metering channel and a washer located between the sleeves with a connecting channel. The design is simplified and the reliability is improved by provision for a metering valve in the connecting channel. The counterpiston has throttling slots for connecting the accumulation cavity to the metering channel so that the cross sections of the damping slots are gradually reduced as the counterpiston is seated. Card 1/2 UDC: 621.43.038.5

CIA-RDP86-00513R001549820004-8



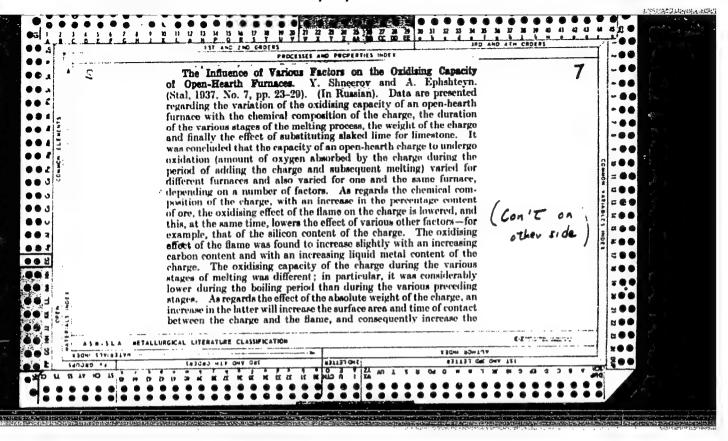


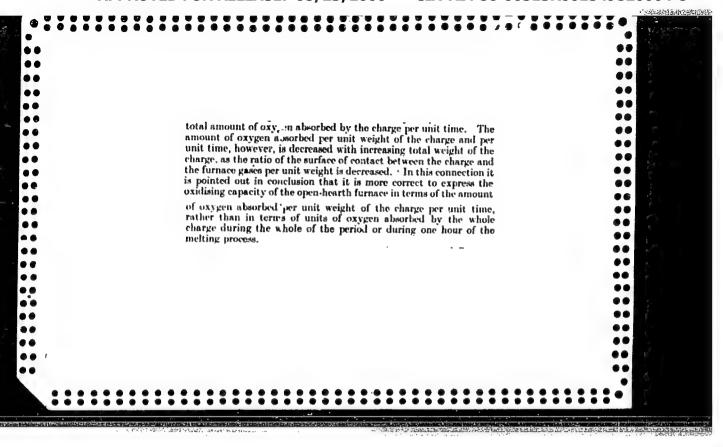
"APPROVED FOR RELEASE: 08/23/2000 CIA-F

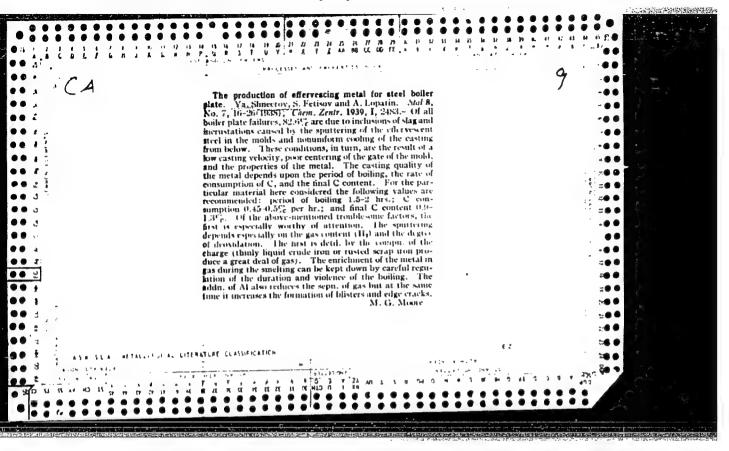
CIA-RDP86-00513R001549820004-8

SHNEYEROV, Ya.A. and FETISOV, S.G.

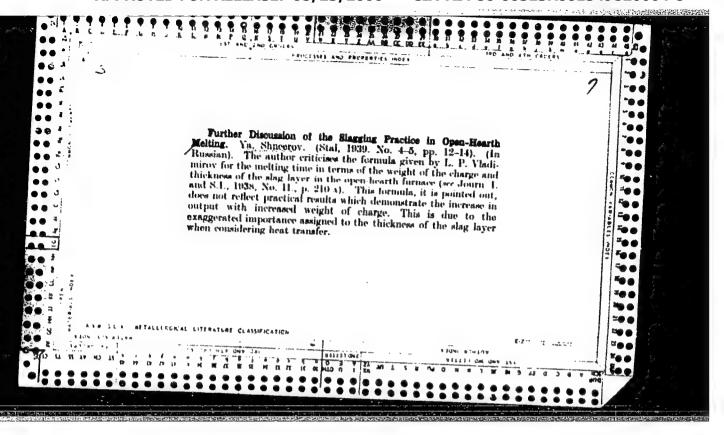
"The Technological and Organizational Foundation of the Records Achieved by Maker Mazay, the Steel Maker," Stal' Steel, Nos 4/5/ 1937.

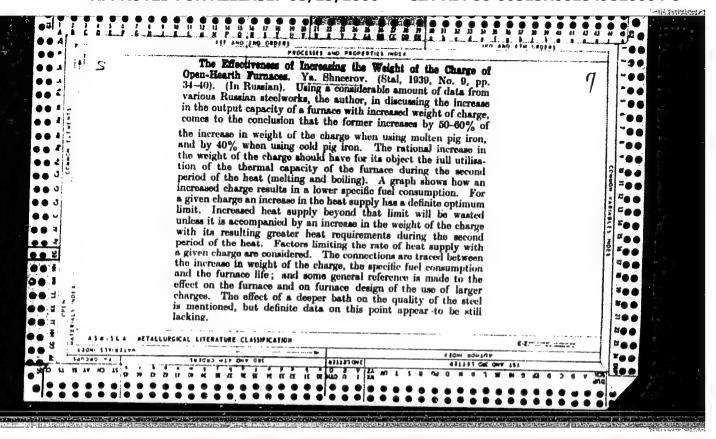


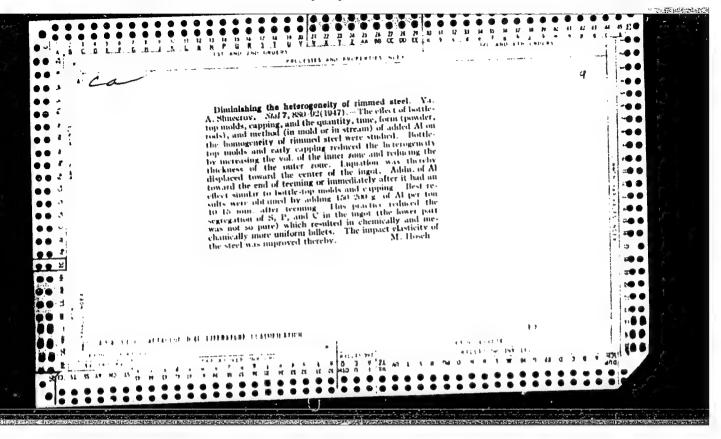




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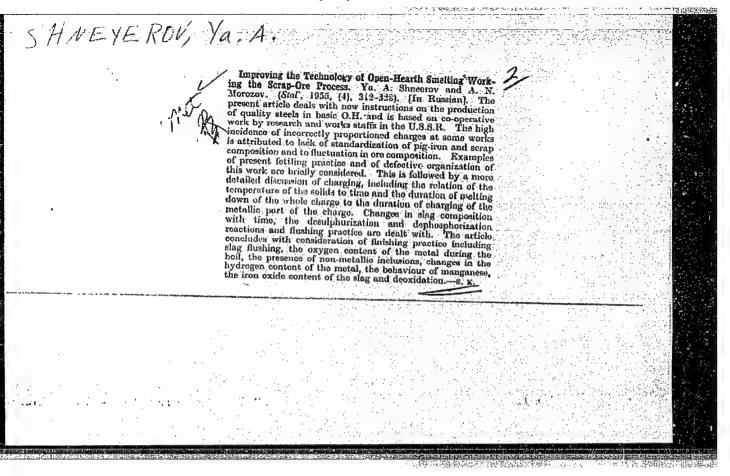




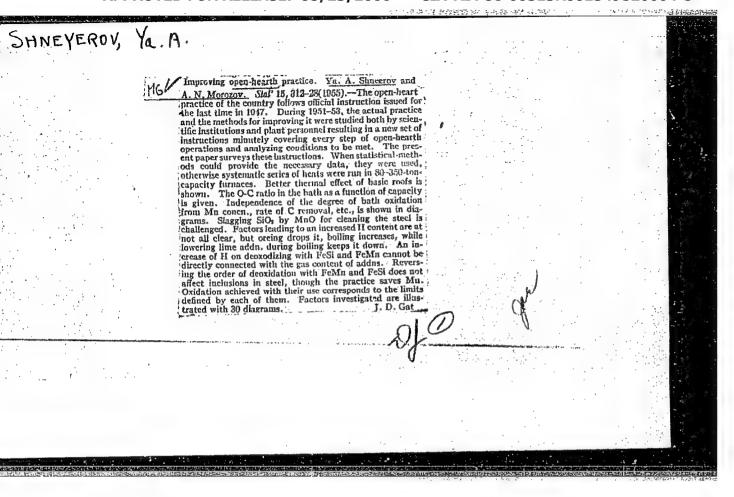
SHEEYEROV, Ya. A.

"Large-Capacity Open-Hearth Furnace," Problemy Matallurgii, pp 295-300, 1953 Trans. - M-287, 22 Mar 55

CIA-RDP86-00513R001549820004-8



CIA-RDP86-00513R001549820004-8

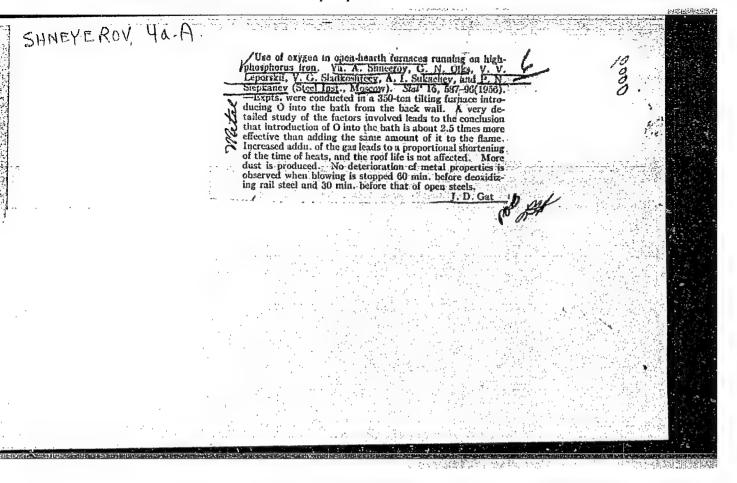


SHNEYEROV, Yakev Aronovich; MIKHAYLOV, O.A., redaktor; CHERNYAK, I.G., redaktor izdatel'stva; EVENSON, I.M., tekhnicheskiy redaktor.

[Open-hearth furnaces of large capacity] Martenevskaia pech' bol'shei emkosti. Moskva, Gos.nauchne-tekhn.izd-vo lit-ry po chernei i tsvet-noi metallurgii, 1956. 107 p.

(Open-hearth furnaces)

CIA-RDP86-00513R001549820004-8



SHRYPROV Yena.; Luporskiy, V.V.; Oyks, G.N.; Sladkoshteyev, V.T.;

SUKACHEV, A.I.; KAPUSTIN, Ye.A.; EUL'SKIY, M.T.; SLEPKANEV, P.E.

Oxygen fed into the fuel spray of large open-hearth furnaces during conversion of phosphorous cast iron. Stal' 16 no.10:875-882 0 '56.

(MLRA 10:9)

1. Ukrainskiy institut metallov, zavod "Azovstal'" i Moskovskiy institut stali.

(Ocen-hearth furnaces) (Oxygen--Industrial applications)

PHASE I BOOK EXPLOITATION

268

- Shneyerov, Ya. A., Morozov, A.N. Chapters I-III and paragraph 1 of Chapter VI, written in collaboration with Rabinovich, A.G.
- Tekhnologiya martenovskoy plavki; obobshcheniye peredovogo opyta (Technology of the Open-hearth Process; Experience of Leading Steel Mills) Moscow, Metallurgizdat, 1957. 219 p. 4,500 copies printed.
- Sponsoring agencies: Ukrainskiy institut metallov and Chelyabinskiy politekhnicheskiy institut.
- Ed.: Korolev, M.I.; Ed. of Publishing House: Rozentsveyg, Ya.D.; Tech. Ed.: Evenson, I.M.
- PURPOSE: This book is intended for steel-foundry engineers, workers in scientific research institutes and planning organizations. It may also be useful to vuz and technical school students.
- COVERAGE: The book presents the findings of leading steel mills obtained from 1951 to 1955 on increasing production of open-hearth

Card 1/5

Technology of the Open-hearth Process (Cont.)

268

foundries and improving smelting by the scrap process. book discusses time required for charging, heating, smelting, finishing and the open-hearth-furnace heating regime. Personalities mentioned include: Ya. A. Shneyerov, who was responsible for the research done at the Ukrainskiy institut metallov (Ukrainian Institute of Metals); A.N., Morozov, Doctor of Technical Sciences, who directed the research done by the Leningrad and Chelyabinsk Polytechnical Institutes; M.M. Karnaukhov, Academician, general director of research and consultant. The following are mentioned in connection with research done at the Ukrainian Institute of Metals: A.G. Rabinovich, A.G. Derfel', V.S. Terekhova, A.G. Kotin, M.D. Logovinskiy, S.D. Loshchilov, Ye. G. Goykhman, V.G. Podoynitsyn. Scientific contributors from the Steel Metallurgy Department of the Leningrad Polytechnical Institute are: B.V Frontinskiy; A.Kh. Urazgil'deyev; S.D. Karpov, Engineer; D.G. Maksimchuk; and O.K. Sadovnik. Scientific contributors from the Steel Metallurgy Department of the Chelyabinsk Polytechnical Institue are: E.I. Kasperovich, A.I. Stroganov, V.F. Isayev, and I. V. Markov.

Card 2/5

SHNEYEKOV, YA.A.

137-1958-1-334

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 51 (USSR)

AUTHORS: Morozov, A. N., Shneyerov, Ya. A.

Slag Formation During Fusion in Basic Open Hearth Furnaces (Shlakoobrazovaniye vo vremya plavleniya v osnovnykh martenov-TITLE.

skikh pechakh)

V sb.: Fiz.-khim. osnovy proiz-va stali. Moscow, AN SSSR, PERIODICAL:

1957, pp 132-142. Diskus. pp 160-187

Theoretical concepts and experimental and industrial data from the plants in the east and south of our country are employed to ex-ABSTRACT: amine problems of the formation of primary slag and the drossing of S and P during melts in open hearths working on scrap and ore. It is established that slagging off of the maximum amount of slag per heat makes for good drossing of P. The (S)/[S] ratio attains a maximum 15 to 20 minutes after the iron has been charged into the furnace. The maximum depends primarily upon the (MnO) in the slag, and varies from 1.0-2.0 at 9% (MnO) to 4-5 at 23% (MnO). The order in which the free-flowing materials are charged has a major effect upon the process of primary slag formation,

particularly upon (FeO). Analysis of charging methods has shown Card 1/2

CIA-RDP86-00513R001549820004-8

SHNEYEROV VA.A

AUTHOR: Shneyerov, Ya.A. and Kotin, A.G.

130-8-7/20

TITLE:

Ways of Increasing the Productivity of Open-hearth Shops (Puti povysheniya proizvoditel'nosti martenovskikh tsekhov)

Metallurg, 1957, No.8, pp. 18 - 20 (USSR) PERIODICAL:

This is a report presented by the authors at the All-Union ABSTRACT: Steel-smelters Conference. It is based on a study of the organisation of work in the open-hearth shops at the Magnitogorsk and Kuznetsk combines and the "Zaporozhstal'", "Azovstal'" imeni Kirov (imeni Kirova), imeni Voroshilov (imeni Voroshilova) and imeni Dzerzhinskiy (imeni Dzerzhinskogo) Works. From this study, conclusions on best organisational practice for shops with large-capacity furnaces were generalised. The authors contrast practice at Kuznetsk and Magnitogorsk on the one hand with that at the Southern Works. The aspects considered by the authors include preservation of furnace dimensions during a campaign, standardisation of charging, charging equipment and layout, constancy of hot-metal composition, slag-running, crane capacity and availability, pouring methods (until recently almost exclusively bottom-pouring at Southern Works), ingot stripping, furnace repairs and tapping practice.

ASSOCIATION: Ukrainian Institute of Metals (Ukrainskiy Institut

metallov)

AVAILABLE:

Library of Congress.

Card 1/1

137-58-6-11687

Oxygen Applications in Open-hearth Steelmaking

elimination of delays in tapping. The use of O₂ increases the dust content of the combustion products by 2.5-3 times during the heating and addition times, and by 5-10 times during the blow. To reduce dust formation during the blow it is deemed necessary to conduct experiments in blowing the bath with a mixture of steam and oxygen. Ref. also RzhMet, 1957, Nr 3, abstract

V.G.

1 Open hearth furnaces--Performance

2. Oxygen--Applications

3. Steel--Production

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000 CIA-I

CIA-RDP86-00513R001549820004-8

SHNEYEROV, Ya. A.

137-58-5-9104

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 51 (USSR)

AUTHOR: Shneyerov, Ya.A., Kotin, A.G.

TITLE: Means of Increasing the Productivity of Steel Smelting Shops

(Puti povysheniya proizvoditel'nosti staleplavil'nykh tsekhov)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Nr 18,

pp 469-474

ABSTRACT: Bibliographic entry. Ref. RzhMet, 1958, Nr 1, abstract 353

1. Steel---Production 2. Steel---Processing

Card 1/1

SHNEYEROV, Ya.A

DANIKHELKA, A., doktor, inzh.; MIKHAYLOV, O.A., kand. tekhn. nauk; GONGHARENKO, N.I.; KLIMASENKO, L.S.; OYKS, G.N., prof., doktor tekhn, nauk; SEMENENKO, P.P.; MOROZOV, A.N., prof., doktor tekhn. nauk; GLINKOV, M.A., prof., doktor tekhn. nauk; KAZANTSEV, I.G., prof., doktor tekhn. nænk; KOCHO, V.S., prof., doktor tekhn. nænk; Prof., doktor tekhn. nauk; MOROZENSKIY, L.I., kand. tekhn. nauk; GURSKIY, G.V.; SPERANSKIY, V.G.; NOVIK, L.M., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; SHNEYEROV, Ya.A., kand, tekhu, nguk; PAPUSH, A.G., kand. tokhr. nauk; MAZOV, V.F.; SAMARIN, A.M. (MIRA 11:4)

Discussions. Hul. TSNIIGHM no.18/19:17-35 57.

1. Glavnyy staleplavil shchik Ministerstva metallurgicheskoy promyshlennosti i rudnikov Chekhoslovatskov respubliki (for Danikhelka). 2. Direktor TSentral nogo instituta informatsii chernoy metallurgii (for Mikhaylov). 3. Direktor Ukrainskogo instituta metallov (for Goncharenko). 4. Glavnyy staleplavil shchik Kuznetskogo metallurgicheskogo kombinata (for Klimasenko). 5. Zaveduyushchiy kafedroy metallurgii stali Moskovskogo instituta stali (for Oyks). 6. Zamestitel glavnogo inzhenera zavoda im. Serova (for Semenanko). 7. Zaveduyushchiy kafedroy metallurgii stali Chelyabinskogo politekhnicheskogo instituta (for Morozov). 8. Zaveduyushchiy kafedroy metallurgicheskikh pechey Moskovskogo instituta stali (for Glinkov). 9. Zaveduyushchiy kafedroy metallurgii stali Zhdanovskogo metallurgicheskogo instituta (for Kazantsev). 10. Zaveduyushchiy kafedroy metallurgii stali Kiyevskogo politekhnicheskogo instituta (for Kocho).

in de la company de la comp

DANIKHELKA, A .-- (continued) Card 2.

11. Nachal'nik tekhnicheskogo otdela Ministerstva chernoy metallurgii Vengerskoy Narodney Reapubliki (for Knekesh). 12. Zamestitel' direktora Novotul'skogo metallurgicheskogo zavoda (for
Gurskiy). 13. Nachal'nik tekhnicheskogo otdela zavoda "Dneprospetsstal' (for Speranskiy). 14. Institut metallurgii im. Baykova
AN SSSR (for Novik). 15. Nachal'nik staleplavil'noy laboratorii
Ukrainskogo instituta metallov (for Shneyerov). 16. Nachal'nik
laboratorii pe nepreryvnoy razlivke stali Zhdanovskogo filiala
TSentral'nogo nauchno-issledovatel'skogo instituta Ministerstva
stroitel'noy promyshlennosti (for Papush). 17. Nachal'nik martenovskogo tsekha zavoda "Zaporozhstal'" (for Mazov). 18. Zemestitel' direktora Instituta metallurgii im. Baykova AN SSSR, chlenkorrespondent AN SSSR (for Samarin).

(Steel--Metallurgy)

KOROLEV, A.I.; BLINOV, S.T.; IUBENETS, I.A.; KOBURNEYEV, I.M.; TURUBINER,

A.L.; VASIL'YEV, S.V.; GHERNENKO, M.A.; BELOV, I.V.; TELESOV, S.A.;

MAZOV, V.F.; MKDVKDEV, V.A.; MAL'KOV, V.G.; BUL'SKIY, M.T.;

THUBETSKOV, K.M.; SHNEYEROV, YS.A.; SLADKOSHTEYEV, V.T.; PALANT,

V.I.; KUROCHKIN, B.N.; ZHDANOV, A.M.; BELIKOV, K.N.; SABIYEV,

M.P.; GARBUZ, G.A.; PODGORETSKIY, A.A.; ALFEROV, K.S.; NOVOLODSKIY,

P.I.; MOROZOV, A.N.; VASIL'YEV, A.N.; MARAKHOVSKIY, I.S.; MAIAKH,

P.I.; MOROZOV, A.N.; VASIL'YEV, A.N.; NECHER, N.A.; PASTUKHOV, A.I.;

A.V.; VERKHOVTSEV, E.V.; AGAPOV, V.F.; VECHER, N.A.; PASTUKHOV, A.I.;

BORODULIN, A.I.; VAYNSHTEYN, O.YA.; ZHIGULIN, V.I.; DIKSHTEYN, YS.I.;

KLIMASENKO, L.S.; KOTIN, A.S.; MOLOTKOV, N.A.; SIVERSKIY, M.V.;

ZHIDETSKIY, D.P.; MIKHAYLETS, N.S.; SLEPKANEV, P.N.; ZAVODCHIKOV,

N.G.; GUDEMCHUK, V.A.; NAZAROV, P.M.; SAVOS'KIN, M.YS.; NIKOLAYEV,

Reports (brief annotations). Biul. TSNIIGHM no.18/19:36-39 157. (MIRA 11:4)

1. Magnitogorskiy metallurgicheskiy kombinat (for Korolev, Belikov, Agapov, Dikshteyn). 2. Kuznetskiy metallurgicheskiy kombinat (for Blinov, Vasil'yev, A.N., Boročulia, Klimaserko). 3. Chelyabinskiy Blinov, Vasil'yev, A.N., Boročulia, Klimaserko). 4. Zavod im. metallurgicheskiy zavod (for Imbenets, Vaynshteyn). 4. Zavod im. Dzherzhinskogo (for Koburneyev). 5. Zavod "Zaporozhstal'" (for Dzherzhinskogo (for Ghernenko, Makeyevskiy metallurgicheskiy zavod (for Talesev, Malakh). (Continued on next card)

KOROLEV, A.I .-- (continued) Gara 2.

10. Nizhne-Tagil'skiy askallurgicheskiy kombinet (for Medvedev, Novolodskiy, Vecher). 11. Zavod "Azovstal'" (for Bul'skiy, Slepkanev). 12. Tšentral'myy nauchno-issledovatel'skiy institit chernoy metallurgii (for Trubetskov). 13. Ukrainskiy institut metallov (for Screyerov, Sledkoshteyev, Kriin). 14. Zavod "Krasnyy Oktyabe'" (for Palent). 15. Vsesoyumyy rauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (for Kurochkin). 16. Zavod im. Voreshilova (for Sabiyev). 17. Ghelyabinskiy politekhnicheskiy institut chernyih metallor (for Pastukhov). 20. Zavod im. Petrovskogo (for Zhigulin). 21. Ministerstva chernoy metallurgii USSR (for Molockov, Siverskiy). 22. Glavspetsstal' Ministerstva chernoy metallurgii SSSR (for Nikolayev).

(Open-hearth process)

SOV/130-58-8-5/18

Shneyerov, Ya.A., Derfel', A.G., Kotin, A.G., Byl'skiy, · ATITHORS:

M.T. and Alimov, A.G.

Pre-refining Pig Iron in Ladles with a Steam-oxygen TITLE:

Mixture (Predvaritel'naya obrabotka chuguna v kovshakh

parokislorodnoy smes'yu)

PERIODICAL: Metallurg, 1958,3nr 8, pp 11 - 14 (USSR)

At the "Azovstal'" Works, hot metal forms 75% of the open-hearth furnace charge and conditions are therefore ABSTRACT:

particularly suitable for pre-refining. A semi-fullscale installation (Figure 1) was constructed in the mixer house at the works. The authors describe tests on 130 ladles (114 phosphoric and 16 ordinary open-hearth With 20-40% steam evolution of brown fumes was avoided. The following additions (in % of the weight of phosphoric iron) were also tested: limestone 1.5 and 3 with 1% ore in the latter case; ore, 2.5 and 5%; ore and limestone, 1.5 and 2.5% each. With the ordinary grade: limestone, 1.5; ore 1.5; ore and limestone 1.5 each. The authors describe the effects of the different additions on iron composition and lance consumption

(which is associated with the formation of slag capable of coating the lance). With increasing consumption of Cardl/3

Pre-refining Pig Iron in Ladles with a Steam-oxygen Mixture

oxygen per ton of metal (3-8 nm³), oxidation of manganese and silicon increases. Steam consumption was regulated to prevent fume formation; the highest oxygen: steam ratios were obtained with large amounts of additions, which produced a protective slag layer. Both top blowing and lancing were tried, tube consumptions being 300-400 and 100 mm, respectively, per lancing. Temperatures were measured with platinum/platinum-rhodium thermocouples: the mean temperature rise during the lancing was 25-70 °C, the rise with additions being greater because of the greater oxidation of silicon. Analysis of the metal showed that good mixing occurred during mixing. Metal losses were as follows: splashes, 0.51%, evolution in fume 0.04%. The hydrogen content of the metal was found to rise during lancing from 2.3 - 3.9 to 4.6 - 6.0 cm²/100 g, falling during pouring into the mixer to 4.2 - 4.3 cm³/100 g

Card 2/3

SOV/130-58-8-5/18 Pre-refining Pig Iron in Ladles with a Steam-oxygen Mixture

There are 2 figures.

Ukrainskiy institut metallov (Ukrainian Institute of Metals) and Zavod "Azovstal'" ("Azovstal'" ASSOCIATIONS:

Works)

1. Iron--Production 2. Open hearth furnaces--Operation

3. Dippers--Applications Card 3/3

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Using fluxed briquets and sinter cakes in open-hearth furnaces.

Using fluxed briquets and sinter cakes in open-hearth furnaces.

Biul. TSHIICHM no.4:6-12 '58. (MIRA 11:5)

(Open-hearth process)

SOV/133-58-8-6/30

AUTHOR: Shreyerov, Ya.A., Derfel', A.G., Kotin, A.G.,

Bul'skiy, M.T. and Alimov, A.G.

TITLE: Experiments on a Pre-treatment of Pig Iron in Ladles

with a Steam Oxygen Mixture (Opyt predvaritel noy

obrabotki chuguna v kovshakh parokislorodnoy smes'yu)

PERIODICAL: Stal', 1958, Nr 8, pp 694 - 702 (USSR)

ABSTRACT: Experimental results obtained on the de-siliconisation of pig iron in ladles by blowing an oxygen-steam mixture with

and without various additions to the ladle are described. The treatment was carried out on the way to the mixer in the open-hearth melting shop. The experimental set-up is shown in Figure 1. Initially, blowing of pure oxygen was tried but, due to the formation of copious fumes, this was discontinued and an oxygen-steam mixture was used, steam being added according to blowing conditions to keep the formation of fumes down. The method of mixing oxygen with steam is shown in Figure 2 and the sampling device for taking samples from the ladles in the course of blowing - Figure 3. Additions of ore, limestone and ore-limestone mixtures to the ladle were introduced at blast furnaces

during the filling of the ladle with iron. The compositions

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of additions and mean data on the elimination of pig-iron impurities during filling of the ladle, its transport to the mixer and during 15, 30 and 45 minutes of blowing oxygen, as well as mean iron temperatures before and after blowing are given in Tables 1 and 2. The dependence of the degree of de-siliconisation during 45 minutes of blowing on the initial concentration of silicon - Figure 4 and on the consumption of oxygen - Figure 5; mean consumption of oxygen and steam and limits of their variation for blowing with various additions to the ladle - Table 3; the dependence of oxidation of manganese during 45 minutes of blowing on the consumption of oxygen - Figure 6; the fill of the iron temperature during filling of the ladle and 'ts transport to the place of the treatment - Table 4; the influence of the oxygen-steam ratio on the increase of the iron temperature during 45 minutes of blowing - Figure 7; changes in the chemical composition of iron along the height of the ladle after blowing - Table 5. Conclusions: 1) as a result of blowing phosphorus pig-iron (about 1.5% of P) in the ladle with an oxygen-steam mixture at a specific

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consumption of oxygen of 4.8 m3/t and of steam 4.0 kg/t at a pressure of 4.5 atm., the following elements are oxidised: 0.20% of silicon (41.5% of the initial content), 0.55% of manganese (29.5% of the initial content), and 0.29% of carbon (7.3% of the initial content). During the transport of the ladle, the content of sulphur was decreased by 0.027% and during blowing it was increasing by 0.003, thus the decrease in the sulphur content was 0.024% (21.2% of the initial content). The content of phosphorus remains practically unchanged. On blowing low phosphorus iron, the oxidation of iron admixtures was on the same level as for phosphorus iron; 2) the introduction of oxidising and slag-forming admixtures into the ladle during its filling with iron helped in oxidising the iron admixtures during the filling and the transport of the ladle and noticeably improved their oxidation during the blowing of oxygen. best results in respect of the oxidation of admixtures, utilisation of oxygen and increasing the iron temperature were obtained with additions of 15 kg of ore and 15 kg of limestone per ton of iron. Under the above conditions, the Card3/5

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following results were obtained (in brackets the percent of

Phosphorus Si Mn C S

Iron 0.44(66.7) 0.78(40.0) 0.31(8.0) 0.023(19.0)

Usual iron 0.52(73.5) 0.62(30.5) 0.20(4.5) 0.025(26.0)

During surface blowing of oxygen (without immersing the tube into the iron), the oxidation of the elements remained the same; 3) on blowing with oxygen-steam mixture (20-40% by wt. of steam) the formation of brown fumes was not observed. With an increasing proportion of additions to the ladle the decreasing. On blowing without immersing the tube the decreasing. On blowing without immersing the tube the in the iron temperature during surface blowing is higher than when blowing with an immersed tube. The temperature of the iron after blowing with the optimum additions of temperature delivered to the mixer; 5) the maximum utilisation of the volume of the ladle (up to 85%) was obtained

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on surface blowing (with 15 kg/t additions of limestone and ore); 6) the consumption of blowing tubes was 100 mm for ladle with surface blowing and 300-400 mm when the tube is immersed; 7) the total losses of metal on blowing were about 0.15%.

There are 7 figures, 5 tables and 7 references, 3 of which are Soviet and 4 English.

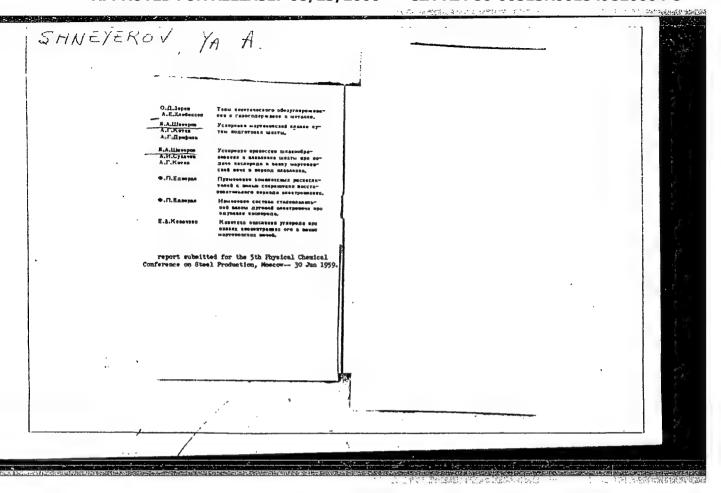
Ukrainskiy institut metallov (Ukrainian Institute ASSOCIATIONS:

of Metals) and Zavod "Azovstal'" ("Azovstal'" Works)

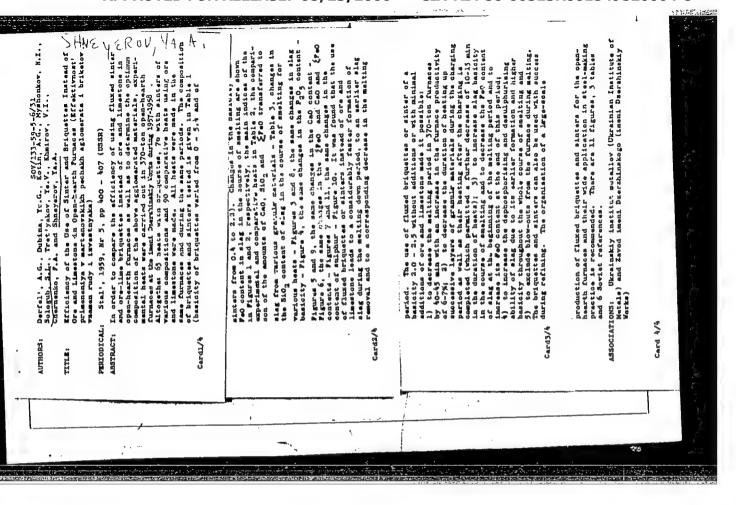
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sov/133-60-1-8/30

AUTHORS:

Shneyerov, Ya. A., Leporskiy, V. V., Derfel', A. G.,

Bul'skiy, M. T., Alimov, A. G.

TITLE:

The Use of Preliminary Processed Cast Iron in Open-

Hearth Smelting

PERIODICAL:

Stal', 1960, Nr 1, pp 32-35 (USSR)

ABSTRACT:

This is a report concerning ladle treatment of liquid cast iron blowing steam-oxygen mixture. The experiments were conducted at the "Azovstal!" Plant in 1957, on a semi-industrial installation in the mixing building. Only one ladle could be blown at a time. Later on, from June to August of 1958, fourteen experimental melts were made. B. S. Kurapin, V. I. Khmirov, N. T. Berilov, A. M. Kercher, and A. I. Tkachenko participated in the work. For each test melt, 4 ladles (each holding approximately 60 tons of cast iron) were blown. The beginning of blowing took place 1 to 2 hours before the beginning of the test melt. 1.5% of ore and 1.0% of lime were

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added to each ladle. The degree of filling the ladle

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was an average of 73%. The blowing schedule was as follows: Pressure (atm gage): for oxygen, 3.4; for steam, 3.5. Hourly consumption: oxygen, 295 m3/hr; steam, 195 kg/hr. Specific consumption: oxygen, 2.6 m3/ ton; steam, 1.7 kg/ton. An increase of steam superheating (up to 300-400° C, instead of 160-180° C) will increase the degree of filling of the ladle by elimination of the splash-out. The open-hearth melts were conducted in 340ton furnaces using the blown cast iron. The authors arrived at the following conclusions. (1) The experiments showed that during the preliminary blowing of conversion cast iron by the steam-oxygen mixture, silicon, manganese, and sulphur were burned out to the extent of 54%, 37%, and 13.7% respectively. (2) The average increase of temperature of cast from during blowing equals 30° C. (3) As a result of the decreased consumption of ore and limestone (in the charge), while smelting the blown cast iron, and due to the increase of cast Iron temperature, the duration of melts decreased by 45 minutes for rimmed

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steel and by I hour II minutes for rail steel. The specific fuel consumption decreased and the productivity of the furnace increased on the average by 8%. In connection with good experimental results obtained at the "Azovstal'" Plant, it is planned to build an industrial installation for ladle treatment of cast iron. The editors comment that, due to the small number of test melts (only 5000 tons of steel were smelted) the above conclusions should be regarded as only preliminary. There are 2 figures.

ASSOCIATION:

Ukrainian Scientific Research Institute of Metals and the "Azovstal!" Plant (Ukrayinskiy n.i. institut metallov i zavod "Azovstal!")

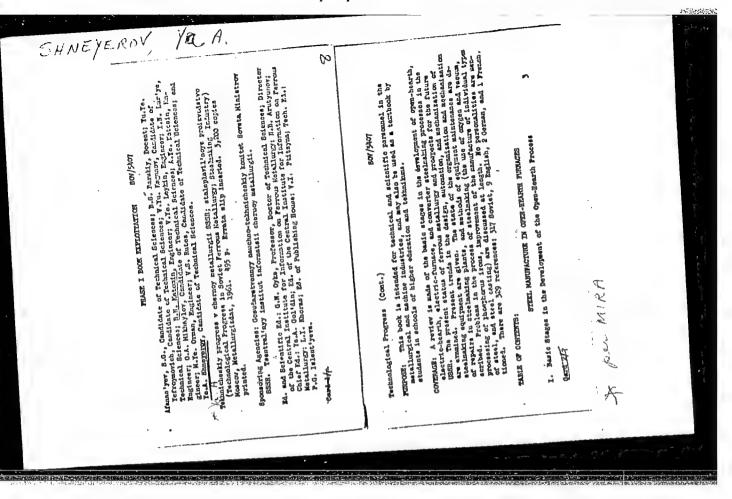
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SHNEYEROV, Ya.A.; LEPORSKIY, V.V.; KAZARNOVSKIY, D.S.; KOTIN, A.G.; KURMANOV,
M.I.; SUKAGHEV, A.I.; SLADKOSHTETEV, V.T.; BUL'SKIY, M.T.; SVIRIDENKO,
F.F.; SIDEL'KOVSKIY, M.P.; KOZHEVNIKOV, I.Yu., red.; BORODAVKIN, M.L.,
red. izd-va; ISLENT'YEVA, P.G., tekhm. red.

[Converting phosphorous cast iron in open-hearth furnaces] Peredel fosforistykh chugunov v martenovskikh pechakh. Moskva, Gos. nauchnoforistykh chugunov v martenovskikh pechakh. Moskva, Gos. (MIRA 14:8)

(Open-hearth process)

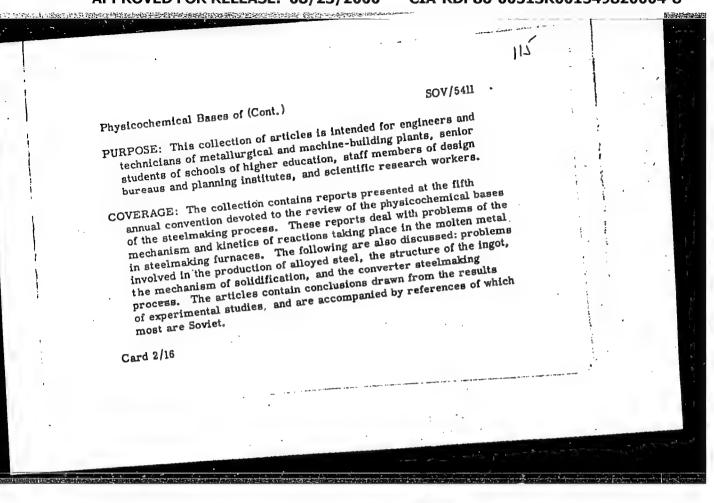
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117 SHNEYERRY, Ja A. SOV/5411 PHASE I BOOK EXPLOITATION Konferentsiya po fiziko-khimicheskim osnovam proizvodstva stali. 5th, Moscow, 1959. Fiziko-khimicheskiye osnovy proizvodstva stali; trudy konferentsii (Physicochemical Bases of Steel Making; Transactions of the Fifth Conference on the Physicochemical Bases of Steelmaking) Moscow, Metallurgizdat, 1961. 512 p. Errata slip inserted. 3,700 copies printed. Sponsoring Agency; Akademiya nauk SSSR. Institut metallurgii imeni A. A. Baykova. Responsible Ed.: A.M. Samarin, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: Ya. D. Rozentsveyg. Tech. Ed.: V. V. Mikhaylova. Card 1/16

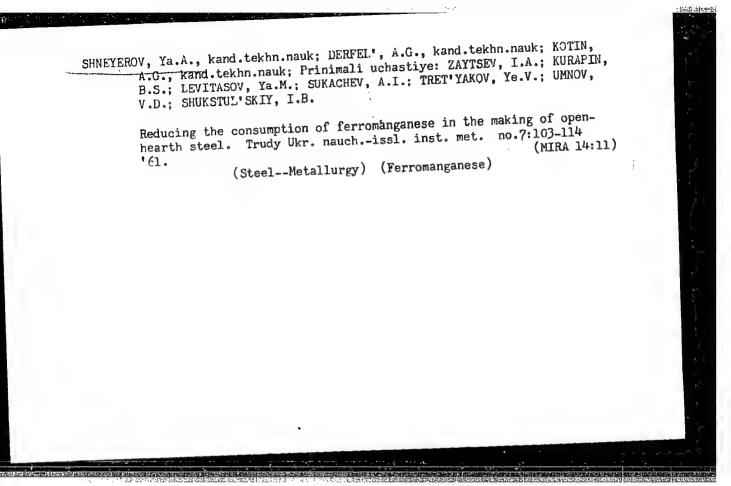
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5/133/61/000/006/003/017 A054/A129

AUTHOR:

Shneyerov, Ya. A.

TITLE:

Semi-killed and stopped steels

Stal; no. 6, 1961, 516-518 PERIODICAL:

In February 1961, the Ukrainskiy institut metallov (Ukrainian Institute of Metals) and the Stalino Sovnarkhoz convened a meeting to discuss the production of semi-killed and stopped steels. The main advantages of semikilled steel are production increase (7 - 10%) as a result of the reduced top cropping; the decrease in the consumption of deoxidizing agents (by about 50%); its more uniform structure. When semi-killed steel is used, less metal is required for the same product than when making it from killed steel, because there is less waste caused by lamination, for instance. Another type between rimming and killed steel is "stopped" steel, the rimming of which is stopped after the mold is filled, or at the end of pouring. The deoxidants (aluminum or ferrosilicon) are added onto the surface of the metal, or mechanically while the metal is being poured into the ingot of special hollow shape. Rolling stopped steel will raise the blooming mill output by 2-5%, because the ingot tops become

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Semi-killed and stopped steel

denser and the properties of steel improve due to a more uniform chemical structure. In 1955, the "Azovstal'" Plant began producing a slightly deoxidized semikilled steel (CT.5KN = St.5kp) for mine supports, which was deoxidized with ferromanganese in the ladle. In 1959, the Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Plant) also started the production of semi-killed CT.5 nc, CT.6 nc (St.5ps, St.6ps) steel for mine supports and rails for small tracks. In this plant semi-killed steel was deoxidized in the ladle by 45% ferrosilicon max. 2 kg/t and aluminum, 50 g/t. Head cropping on the blooming stand was reduced to 5%. Since 1947, the Vyksunskiy zavod (Vyksunsk Plant) has produced semi-killed steel strips for tubes. Deoxidation is carried out with 0.4 - 0.5 kg/t aluminum. In 1959-60, the Ukrainian Institute of Metals, in cooperation with "Azovstal", the Makeyevka and Krivoyrog Plants carried out tests to obtain a method of producing semi-killed steel (with C-content) in open-hearth furnaces and oxygen converters. In 1959, the Zaporozhstal Plant in cooperation with TsNTIJhM developed a technology for semi-killed steel instead of the ST.3kp and 08kp rimming steels for hot-rolled sheets. In 1958-59, the Jenakiyevskiy metallurgicheskiy zavod (Jenakiyevo Metallurgical Plant) in cooperation with the Ukrainian Institute of Metals started the production of http://doc. Det. 60c (ESt. 5) ps, BSt.6ps) semi-killed steels for reinforcing purposes (5ps) and for mine rails (6ps). In 1960, the Zakavkazkiy metallurgicheskiy zavod (Transcaucasian Card 2/4

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Semi-killed and stopped steel

Mecallurgical Plant) in cooperation with the Moskovskiy institut stali (Moscow Steel Institute) developed the technology for the St.2ps and 4ps steels, which could replace killed steel in rolling seamless tubes. Since 1959, the Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Plant) applied the method of "capping" ("stopping") rimming steel (St. 3kp) chemically by feeding aluminum (75 - 115 g/t) under the metal jet at the end of pouring into the mold (3-5 sec before the stopper is removed). However, neither semi-killed nor stopped-steels are produced in considerable amounts in the USSR. In 1960 the quantity of semikilled steel production was not more than 1%, that of stopped steel 0.5%. This is mainly due to the fact that metallurgists do not fully appreciate the advantages of this kind of steel, although the economic gain is noticeable in the first place in metallurgical plants. The present standards for carbon-steels are also unfavourable for semi-killed steels (FOCT/GOST 380-60). The meeting agreed upon that nearly all killed steels corresponding with GOST 1050-60 for a very large variety of products (ship building, for instance) could be replaced by semi-killed steels. The meeting also put forward suggestions for the technology of semi-killed and stopped steels: when semi-killed steel with more than 0.25% carbon is cast, deoxidation should take place in the ladle. Ferrosilicon should be used as deoxidant in an amount to ensure a 0.05-0.12% silicon content

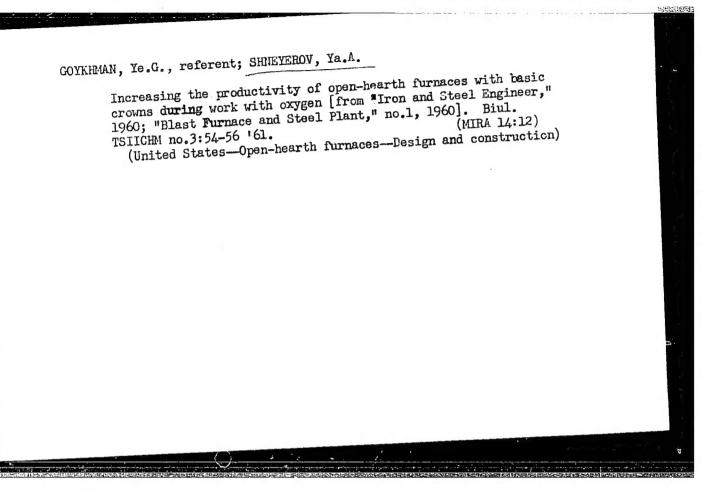
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Semi-killed and stopped steel

in the finished metal and also aluminum (100 - 300 g/t), depending on the carbon content. Chemical capping of rimming steel can be effected by the addition of 45% or 75% ferrosilicon. Aluminum was added in the form of metal grains, ferrosilicon in small lumps (10-20 mm in diameter). Practical suggestions were made to accelerate the manufacture of industrial-scale test products of semi-killed steel, mainly for the building industry, agricultural machinery, and to produce high-grade aluminum grains from second-grade aluminum.

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SHNEYEROV, Ya.A. Increasing the output of open hearth furnaces now in service.

Stal! 23 no.9:792.798 S '63. (MIRA (MIRA 16:10)